

ACC NR: AT7001360

control devices used in connection with net monitoring, their operation, and accuracy, together with block schematics, are discussed and presented. Installations of fish locating equipments in modern fishing vessels are described, and fair exhibits are listed. Orig. art. has: 12 figures and 7 tables.

SUB CODE: 13,06,09,17/SUBM DATE: 15Oct65

Card 2/2

KHERENDOVICH, Imre

KHERENDOVICH, Imre Cand Tech. Sci. -- (diss) "Study of the work of the teeth of the working cutting chain mechanism of the coal mining combine." Moscow, 1957. 10pp 20 cm.  
(Min Higher Ed. USSR. Moscow Mining Inst, Chair of Mining Machines,) 140 copies

(L, 20-57, 84)

ANDZHELESKU, Ye. [Angelescu, E.] akademik; KHERER, O. [Horer, O.]

Phase conversions in the gelation of association colloids. Pt.1.  
Rev chimie 8 no.1:87-93 '63.

1. TSentr khimicheskikh issledovaniy Akademii RNR, Bukharest.

89754

S/169/51/000/002/007/039  
A005/A001

3.9400

Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 2, p. 3, # 2016

AUTHORS: Deniskin, N. A., Yegorov, Yu. M., Lipskaya, N. V., Osinskaya, S. V.,  
Kheresko, G. V., Shel'ting, V. F.

TITLE: A Magnetic Station With a Quartz Microvariometer

PERIODICAL: V sb.: "Vozmushcheniya elektromagnitn. polya Zemli". Moscow, AN SSSR  
1960, pp. 57-62 (English summary)

TEXT: It is reported on the development and designing of a magnetic micro-  
variation station on the basis of the low-inertial quartz variometer which was  
proposed by V. F. Shel'ting (see abstr. No. 2015). The station is intended for  
continuous recording of the variations of all three components of the Earth's mag-  
netic field with amplitudes of the order of  $10^{-7}$  oe and more, and duration of from  
1 sec. to many minutes. The equipment consists of three main assemblies: 1) the  
microvariometers of X, Y, Z; 2) the photographic recorder with 200 mm in paper  
width and 90 mm/hr in speed, which has also a device marking the time; 3) an  
automatic band switch relay operated by two photoresistances and permitting the  
rays to return in jump onto the phototape after reflection from the microvariometer

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A Magnetic Station With a Quartz Microvariometer

S/169/61/000/002/007/039  
A005/A001

mirror in case of its departure from the tape under the effect of an intense variation of the field. If operating with the automatic banswitch relay, large angular deflections of the moving system of the responsive element are excluded, which is important for the stabilization of the graduation value. As a result of the tests of the station, which were conducted in autumn 1957, it turned out that: 1) the moment of inertia of the moving system is equal to  $10^{-5}$  g cm<sup>2</sup>; 2) the natural periods of the oscillations of the different variometers lie within the limits of  $T_0 \approx 1 - 2$  sec at a graduation value of the order of  $\varepsilon \approx 0.05$  γ/arc minute; 3) the magnetic moments of the moving magnets amount to about  $m = 0.5 - 1$  electromagnetic units; 4) the shape of the frequency characteristic of the device testifies that the graduation value is constant for all periods longer than two or three seconds and does not depend on the period of the perturbing force; 5) the amplitude characteristic is linear within the limits of the scale width. There are 7 references.

U. Fastovskiy

Translation from: This is the full translation of the original Russian abstract.

Card 2/2

KHERETS, L.Sh.

Eliminating the moment of Mutual inductance in alternating-current  
electromagnetic logometers. Izv.tekh. no.4:82 J1-Ag '56.

(MLBA 9:11)

(Electric meters)

KHERFORT, Karel, Prof.

Our modification of the fraction investigation of the biliary ducts through a duodenal tube. Suvrem. med., Sofia 8 no.7:52-66 1957.

1. Vutreshno otdelenie pri poliklinikata na Karlovia universiate -  
Praga Direktor: prof. Karel Kherfort.

(BILE DUCTS

fraction exam. through duodenal tube)

KHERFURT, K.

Vibration as applied in the continuous casting of nonferrous metals and their alloys. Ratsionalizatsiia no.8:24 '62.



KHERFURT, Kh.

Junction boxes of the cables insulated with polyethylene.  
Ratsionalizatsia 13 no.2:26-27 '63.

KHERRABOLIDZE, I. I.

"Graphical Method for Solving the Problem of Nonuniform Motion in Open Channels," Hydro-technical Construction, No 2, 1947 (5-8).  
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

KHERKHEULIDZE, I. I.

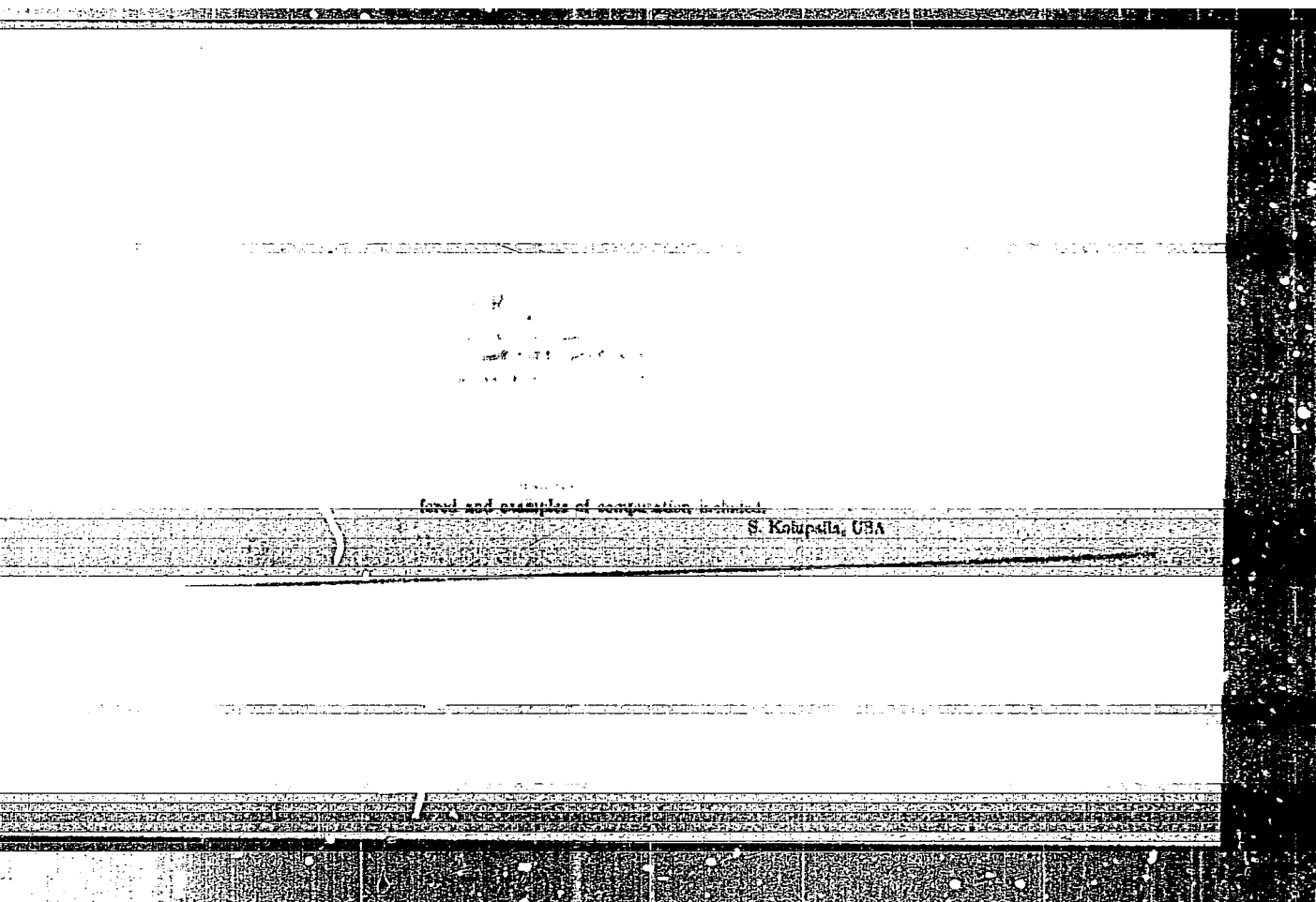
KHERKHEULIDZE, I. I.

35269. Primenenie Sbornykh Zhelezobetonnykh Tetreedrov Dlya Regulyatsionnykh Sooruzheniy. Trudy IV Vsesoyoz. Konf-Tsii Po Beton Izhetezobeton Konstruktsiyam. Ch. I. M. L., 1949, S. 300-02

SO: Letopis 'Zhurnal 'nykh Statey Vol. 34, 1949 Moskva

KHERKHEULIDZE, I.I.; BOGOMOLOV, A.I., redaktor; MAL'KOVA, N.V., tekhnicheskii redaktor

[Graphic solutions of some hydraulic engineering and hydrological problems in the construction of bridges and hydraulic structures]  
Graficheskie reshenia nekotorykh zadach inzhenernoi gidravliki i gidrologii v mostovom i gidrotekhnicheskom stroitel'stve. Moskva, Ministerstvo avtomobil'nogo transporta i shosseinykh dorog SSSR, 1953. 59 p. (MLRA 7:11)  
(Hydraulic engineering--Tables, calculations, etc.)



SOV-99-58-9-6/9

AUTHOR: Kherkheulidze, I.I., Candidate of Technical Sciences

TITLE: Prefabricated Reinforced Concrete Grate Structures for Protective and Regulating Constructions on Mountain and Foot Hill Rivers (Sbornoshetchatyye zhelezobetonnyye konstruktsii zashchitnykh i vypravitel'nykh sooruzheniy na gornykh i predgornykh rekakh)

PERIODICAL: Gidrotekhnika i melioratsiya, 1958, Nr 9, pp 43-48 (USSR)

ABSTRACT: The author describes new prefabricated reinforced concrete grate structures for protective and regulating constructions on Caucasian and Transcaucasian mountain rivers devised by him and manufactured by the Zakmetallurgstroy. There are 2 types of structural elements used for these structures: 1) a reinforced concrete beam with thickened ends with a hole in the center (fig. 1). Frames of any given or required height can be assembled from these two parts and transformed into a monolithic construction by driving an old rail through the holes and into the soil. The holes are then filled with a cement solution or plastic concrete 250. Fig. 2 and 3 show different types of such frames which could be used for the construction of spurs or longitudinal girdles. The manu-

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SOV-99-58-9-6/9

Prefabricated Reinforced Concrete Grate Structures for Protective and Regulating Constructions on Mountain and Foot Hill Rivers

facture of these reinforced concrete units is very simple and the transportation and assembly do not entail any difficulties. The author cites many cases where such constructions withstood many floods on various rivers of the Caucasus. There are 4 sets of diagrams, 2 tables and 1 photo.

1. Inland waterways--Control systems
  2. Reinforced concrete
- Applications

Card 2/2

KHERKHEULIDZE, I.I.

A method for calculating deformations in contracted channels.

Trudy GruzNIIGIM no.20:375-385 '58.

(MIRA 1515)

(Hydraulics)



KHERKHEULIDZE, I.I.

Calculation of the volume and weight characteristics of solid  
matter in turbulent eroding streams. Trudy Gruz NIIGIM no.21:  
171-176 '60. (MIRA 16:1)  
(Erosion)

KHIMALADZE, Grigor'v Nikolayevich; YEGIAZAROV, I.V., akademik,  
retsenzent; LOPATIN, G.V., doktor geogr. nauk,  
retsenzent; LISITSYNA, K.N., nauchn. sotr., retsenzent;  
BOGOLYUBOVA, I.V., nauchn. sotr., retsenzent;  
KHERKHEULIDZE, I.I., red.; CHEPELKINA, L.A., red.

[Suspended sediments of the rivers of the Armenian S.S.R.]  
Vzveshenrye nasosy rek Armianskoi SSR. Leningrad, Gidro-  
meteoizdat, 1964. 245 p. (MIRA 17:9)

1. Laboratoriya nasosov Gosudarstvennogo gidrologicheskogo instituta (for Lisitsyna, Bogolyubova).

BERITASHVILI, I.S., akademik; KHERKHEULIDZE, N.G.

Origin of spatial orientation in man. Soob. AN Gruz. SSR 20 no. 4:481-  
488 Ap '58. (MIRA 11:7)

1. Institut fiziologii AN GruzSSR, Tbilisi.  
(Space perception)

BERITASHVILI, I.S., akademik; KHERKHOULIDZE, N.G.

Spatial orientation of the blind. Sborn. AN Gruz. SSR 20 no.6:707-714  
Je '50. (MIRA 11:10)

I. AN Gruzinskey SSR, Institut fiziologii, Tbilisi.  
(BLIND) (SPACE PERCEPTION)

KHERKHEULIDZE, N.G.

Spatial orientation of cats during circular motion. Soob. AN  
Gruz. SSR 22 no.3:355-360 Mr '59. (MIRA 12:8)

I.A. GruzSSR, Institut fiziologii, Tbilisi. Predstavleno akade-  
mikom I.S. Peritashvili.  
(Orientation)

KHERKHELIDZE, N.G.

Ontogenetic development of orientation in space in children.  
Sob. AN Grus. SSR 22 no. 5:573-580 My '59. (MIRA 12:11)

1. Akademiya nauk Gruzinskoy SSR, Institut fiziologii, Tbilisi.  
Predstavleno akademikom I.S. Seritashvili.  
(SPACE PERCEPTION)

KHERKHEULIDZE, N. G. Cand Med Sci -- (USSR) "Development of Spatial  
Orientation in Ontogenesis in Children," Tbilisi, 1960, 29 pp, 200 copies  
(Tbilisi State Medical Institute) (KL, 47/60, 107)

TIKHOLOV, Khr., inzh.; KHERMAN, Oto, inzh.

Changing the Sofia network from 150 to 380/220 v. Elektroenergiia  
15 no. 7/8;21-22 J1-Ag '64.



KHERMAN, O., inzh; DZHONOVA, E., inzh

Switching to the higher voltage in the average-voltage cable network of the city of Sofia. Elektroenergiia 15 no.8:12-15  
Mr'64

1. "Elektrosnabdiavane - stolichno", Sofia.

44933

S/690/62/003/000/009/009  
D201/D308

9.7100  
AUTHOR: Khiermanis, E.Kh.

TITLE: Simple method of improving the stability of ferrite-transistorized shift registers operating as frequency dividers

SOURCE: Akademiya nauk Latvyskoy SSR. Institut elektroniki i vychislitel'noy tekhniki. Trudy, v. 3, 1962. Avtomatika i vychislitel'naya tekhnika, no. 3, 143-147

TEXT: The author describes the operation of an attachment to an open register with the regeneration of 'one' in the first cell after its loss in the last, and after an accidental loss of it at any of the intermediate stages, the attachment performing the logic operation of multiplication of 'B' and not 'A'. The above property makes it possible to design the attachment using a 'AND' circuit with two inputs A and B and an inverter at input A. The practical design of such an attachment contains one ferrite core with two windings A and B. The timing pulses are applied to B and the supply current of the  
Card 1/2

ACCESSION NR: AT3007312

S/2690/63/004/000/0167/0170

AUTHOR: Gulevskiy, E. K.; Khermanis, E. Kh.

TITLE: Role played by tunnel-diode capacitance in some transistor circuits

SOURCE: AN LatSSR. Institut elektroniki i vy\*chislitel'noy tekhniki. Trudy\*, v. 4, 1963, 167-170

TOPIC TAGS: tunnel diode, tunnel-diode capacitance, transistor circuit, tunnel-diode-transistor cell, logical element

ABSTRACT: Capacitor charging in a tunnel-diode-transistor cell, specifically the effect of capacitance on the switching time, is theoretically considered in this article. For a simple common-emitter transistorized amplifier with a tunnel-diode resistor  $R_K$  and capacitor  $C$  output, this approximate formula for the maximum charging current  $i_{12}^{\max}$  is developed:

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ACCESSION NR: AT3007312

$$i_{12}^{\max} \approx \frac{U_0}{R_A + R_{12} + \frac{C_0}{C} R_{12}}$$

where  $U_0$  is the applied d-c voltage,  $R_{12}$  is the initial tunnel-diode resistance, and  $C_0$  is the capacitance shunting that resistance in a diode equivalent circuit. The formula shows that, with high  $R_k$ , the diode capacitance  $C_0$  plays a negligible role. The formula holds true for frequencies of up to several mc. For higher frequencies, an exact formula is offered. Orig. art. has: 3 figures and 9 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 12Jul63

ENCL: 00

SUB CODE: GE

NO REF SOV: 002

OTHER: 000

Card 2/2



AI 80 0978

Fig. 7). A further analysis of the experimental results shows that the collector-punching current is proportional to the square of the time (nanosecond) curves of the collector current. The data were obtained on a digital computer.

Institut elektroniki i vychislitel'noy tekhniki AN Latvii  
Electronics and Computer Technology, AN Lat.  
ENCL

OTHER

15027526

SOURCE

R 000005 008 000 0167/0183

AUTHOR: Khermania, E. Kh.

ORG: Institute of Electronics and Computer Technology AN LatSSR, Riga (Institut elektroniki i vychislitel'noy tekhniki AN LatSSR)

TITLE: The effect of tunnel diode load on the sliding process

SOURCE: AN LatSSR. Institut elektroniki i vychislitel'noy tekhniki. Trudy, v. 8, 1965. Avtomatiki i vychislitel'naya tekhnika, 167-183

TOPIC TAGS: tunnel diode, semiconductor device, circuit theory, transistor

ABSTRACT: In numerous practical circuits containing semiconductor diodes one observes a sliding of the operating point along the positive branches of the characteristic during discharges of the capacitors, inductors, or any other element storing potential energy. The paper investigates the influence of various loads on this sliding process with special emphasis on the case when such a load is represented by a diode or a transistor. It presents a model of the semiconductor diode recovery which is quite satisfactory for all practical purposes; the respective theoretical curves were confirmed by oscillograms. Significant errors are noticeable only towards the end of the discharge process when the resistivity of the semiconductor material becomes comparable to the discharge resistance because of the escape of current carriers. A simple expression is obtained for the determination of the sliding time when the load is made of a diode or a transistor operating under deep

UDC 621.382.233.014.2

L 8512-66

ACC NR: AT5027526

saturation. This led to a new method for the measurement of lifetimes of nonbasic current carriers within the transistor basis. Orig. art. has: 24 formulas and 13 figures.

SUB CODE: EC / SUBM DATE: none / ORIG RLF: 005 / OTH REF: 003

Card 2/3 W



MIKHEYEV, N.B.; SPITSYN, Vikt. I.; KHERMANN, A.

Obtaining an equilibrium between the crystalline phase and solution  
by means of the electrochemical method. Vest. Mosk. un. Ser. 2:  
Khim. 19 no.6:29-31 N-D '64. (MIRA 18:3)

1. Kafedra neorganicheskoy khimii Moskovskogo universiteta.

SPITSYN, Vikt.I.; MIKHEYEV, I.B.; KHERMANN, A.

New method of accelerating the establishment of equilibrium  
between the crystalline phase and solution. Zhur.neorg.khim.  
11 no.1:195-197 Ja '66. (MIRA 19:1)

1. Kafedra neorganicheskoy khimii Moskovskogo gosudarstvennogo  
universiteta imeni M.V.Lomonosova. Submitted May 5, 1964.

L 16944-66 EAT(m)/ENP(t) LJP(c) JD/JW

ACC NR: AP6004392

SOURCE CODE: UR/0020/66/166/003/0658/0659

AUTHOR: Spitsyn, V.I. (Academician); Mikheyev, N.B.; Kherrmann, A.

ORG: Moscow State University im. M.V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Thermodynamic study of the distribution of microquantities of strontium between barium hydrophosphate and the solution

SOURCE: AN SSSR, Doklady v. 166, no. 3, 1965, 658-659

TOPIC TAGS: strontium compound, barium compound, phosphate, thermodynamic calculation

ABSTRACT: A thermodynamic study of the cocrystallization of strontium with barium hydrophosphate was carried out. An electrolytic method was employed to establish the distribution of the  $\text{BaHPO}_4\text{-SrHPO}_4\text{-H}_2\text{O}$  system. Under the effect of an electric field, the cocrystallization of the deposit is achieved which promotes the separation of the components. The cocrystallization factor  $D$  was determined by using a linear relationship and the equilibrium constant ( $0.31$ ) at low ionic strengths of the solution. The equilibrium constants of  $\text{BaHPO}_4$  and  $\text{SrHPO}_4$  were determined by use of  $10^{-12}$  and found to be  $1.0 \times 10^{-12}$  and  $1.0 \times 10^{-12}$  respectively. Card 1/2

UDC: 541.123.4

L 16911-66

ACC NR: AP6004302

and  $1.12 \times 10^{-7}$ , respectively. From these values, the energy of formation of a solid solution of  $\text{SrHPO}_4$  in  $\text{BaHPO}_4$  was calculated to be +31.6 cal/mole. Orig. art. has: 1 figure, 1 table, and 1 formula.

SUB CODE: 07 / SUBM DATE: 16Jun65 / ORIG REF: 006 / OTH REF: 004

20/

Card 2/2 vmb

KHERMSDORF, L., nauchnyy rabotnik; KHOKH, G., nauchnyy rabotnik;  
CHERNYAVSKAYA, L. [translator]

Behavior of transistors in presence of weak signals at temperatures ranging from  $-60^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ . Izv. vys. ucheb. zav.; elektromekh. 5 no.6:650-658 '62. (MIRA 15:10)

1. Vysshaye elektrotekhnicheskoye uchilishche g. Il'menau, Germaniskoy Demokraticheskoy Respubliki.

(Transistors)

POLEKHIN, Sergey Illarionovich; SHELEKHES, A.M., retsenzent; BOSOM, N.D.,  
retsenzent; KHERN, K.D., retsenzent; ANTONOV, A.I., otv.red.;  
KIRILLOV, L.M., red.; MARKOCH, K.G., tekhn.red.

[Theory of wire communications] Teoriia svyazi po provodam.  
Moskva, Gos.izd-vo lit-ry po voprosam svyazi i radio, 1960.  
461 p. (MIRA 13:7)

(Telephone)

(Telegraph)

MILEYKOVSKIY, Solomon Gerasimovich; MOROZOV, Arkadiy Petrovich;  
POLYAK, M.U., retsenzent; KHERN, K.D., retsenzent;  
ABOLITS, I.A., otv. red.; ULANOVSKAYA, N.M., red.

[Long-distance communication and multiplexing of municipal  
telephone networks] Dal'niaia sviaz' i uplotnenie gorod-  
skikh telefonnykh tsepoi. Moskva, Izd-vo "Sviaz'," 1964.  
357 p. (MIRA 17:10)

MILEYKOVSKIY, Solomon Gerasimovich; MOROZOV, Arkadiy Petrovich;  
POLYAKOV, M.U., retsenzent; KHERN, K.D., retsenzent;  
ABOLITS, I.A., otv. red.; ULANOVSKAYA, N.M., red.

[Long-distance communication and multiplexing of municipal  
telephone circuits] Dal'niaia sviaz' i uplotnenie gorod-  
skikh telefonnykh tsepei. Moskva, Izd-vo "Sviaz," 1964.  
357 p. (MIRA 17:12)



ARIYA, S.M.; KHERNBURG, M.M.

Metal to metal bond energies in lattices of unsaturated  
oxides of elements of auxiliary subgroups. Zhur. neorg.  
khim. 9 no.7:1525-1528 J1 '64. (MIRA 17:9)

1. Leningradskiy gosudarstvennyy universitet.

L 36443-66 EWT(m)/EWP(e)/EWP(t)/ETI IJP(c) AT/WH/JN/JD/JG  
 ACC NR: AP6018074 (A) SOURCE CODE: UR/0076/66/040/005/1125/1128 56  
 B

AUTHOR: Norozova, M. P.; Khernburg, M. M.

ORG: Leningrad State University im. A. A. Zdanova (Leningradskiy gosudarstvennyy universitet)

TITLE: Heat of formation of titanium nitrides as a function of their composition

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 5, 1966, 1125-1128

TOPIC TAGS: titanium compound, heat of formation, nitrogen compound, calorimetry

ABSTRACT: The dependence of the heat of formation of titanium nitrides upon composition was studied by calorimetric combustion technique. Homogeneous samples of titanium oxides ranging from  $TiN_{0.14}$  to  $TiN_{0.98}$  were prepared by calcining Ti metal in the presence of nitrogen at  $1100^{\circ}C$ . For nitride samples of a general formula  $TiN_xO_y$  ( $y = 0.01-0.02$ ) suitable corrections were made in order to account for the oxygen content. The dependence of the heat of formation upon nitrogen content ( $x$  index in the formula) is shown in Fig. 1 where: 1 - is for titanium nitrides and 2 - is for lower oxides of titanium. It was found that within the range of

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ACC NR: AP6018074

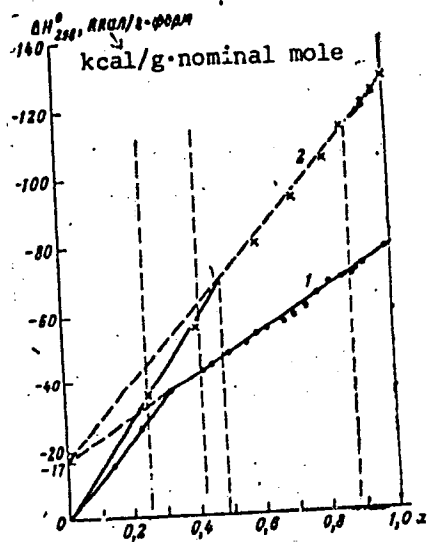


Fig. 1.

L 36443-66 APPROVED FOR RELEASE: 09/17/2001

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ACC NR: AP6018074

homogeneity the heat of formation of titanium nitrides is a linear function of the X-index. A similarity between the dependence of the heats of formation upon the index at nitrogen or oxygen for Ti-TiN and Ti-TiO systems is indicated. Orig. art. has: 1 figure and 1 table.

SUB CODE: 09,20/ SUBM DATE: 01Jul65/ ORIG REF: 008/ OTH REF: 008

MOROZOVA, M.P.; KHERNBURG, M.M.; CHEREZOVA, L.A.

Enthalpy of titanium nitrides. Vest.LGU 20 no.22:169-171 '65.  
(MIRA 18:12)

DSSL # 219

Charlampovich, S.I.

to

Vhernburg, M.M.

END